



A.D. 1872, 11th MARCH. N^o 737.

SPECIFICATION

OF

FREDERICK HENRY OCLEE.

BUSTS FOR DISPLAYING ARTIFICIAL TEETH.

LONDON:

PRINTED BY GEORGE E. TYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,
25, SOUTHAMPTON BUILDINGS, HOLBORN.

Price 7s.

1872.



A.D. 1872, 11th MARCH. N° 737.

Busts for Displaying Artificial Teeth.

LETTERS PATENT to Frederick Henry Oclee, of 31, New Bailey Street, Salford, in the County of Lancaster, for the Invention for “**IMPROVEMENTS IN DENTISTS’ BUSTS EMPLOYED IN THE DISPLAY OF ARTIFICIAL TEETH.**”

Sealed the 3rd September 1872, and dated the 11th March 1872.

PROVISIONAL SPECIFICATION left by the said Frederick Henry Oclee at the Office of the Commissioners of Patents, with his Petition, on the 11th March 1872.

I, **FREDERICK HENRY OCLEE**, of 31, New Bailey Street, Salford, in
5 the County of Lancaster, do hereby declare the nature of the said Invention for “**IMPROVEMENTS IN DENTISTS’ BUSTS EMPLOYED IN THE DISPLAY OF ARTIFICIAL TEETH,**” to be as follows:—

My Invention relates to the busts or models of the human head or face which are used by dentists in the display of artificial teeth, and in
10 illustration of the advantages arising from the application of such teeth. I make the said busts of wax, plaster of Paris, or any other suitable material, and I so form each bust as that the mouth shall be open to

Oclee's Improvements in Busts for Displaying Artificial Teeth.

about the extent which will represent the face as “wearing a smile,” that is to say, the lips are separated sufficiently to show the teeth. A set of artificial teeth is mounted within the bust in the part which would be the mouth in the human figure, and one tooth or two or more teeth is or are mounted upon a lever or upon levers. I prefer to mount two 5 of the upper teeth upon one lever, and two of the lower teeth upon a second lever. The said levers are fitted to rock upon suitable fulcra, and a rocking or vibrating movement is imparted to the said levers by means of a train of “clockwork,” that is to say, by self-acting mechanism, which will continue to impart the said vibrating movement to the levers 10 for some time after having been “wound up.” The said movement of the levers causes the teeth mounted thereon to alternately appear in their proper places so as to complete the set of teeth, and to move out of sight so as to leave vacancies in the said set. The aforesaid “clockwork” may be of an ordinary or suitable description. 15

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Frederick Henry Oclee in the Great Seal Patent Office on the 11th September 1872.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, FREDERICK HENRY OCLEE, of 31, New Bailey Street, Salford, in the County of 20 Lancaster, Dentist, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Eleventh day of March, in the year of our Lord One thousand eight hundred and seventy-two, in the thirty-fifth year of Her reign, did, for Herself, Her heirs and suc- 25 cessors, give and grant unto me, the said Frederick Henry Oclee, Her special license that I, the said Frederick Henry Oclee, my executors, administrators, and assigns, or such others as I, the said Frederick Henry Oclee, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time 30 and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for “**IMPROVEMENTS IN DENTISTS' BUSTS**

Oclee's Improvements in Busts for Displaying Artificial Teeth.

EMPLOYED IN THE DISPLAY OF ARTIFICIAL TEETH," upon the condition, amongst others, that I, the said Frederick Henry Oclee, by an instrument in writing under my hand and seal, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was
5 to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said Frederick Henry Oclee, do hereby declare the nature of my said Invention, and in what manner the same
10 is to be performed, to be particularly described and ascertained in and by the following statement and accompanying Drawings, that is to say:—

My Invention relates to the busts or models of the human head or face which are used by dentists in the display of artificial teeth, and in illustration of the advantages arising from the application of such teeth.
15 I make the said busts of wax, "plaster of Paris," or any other suitable material, and I so form each bust as that the mouth shall be open to about the extent which will represent the face as "wearing a smile," that is to say, the lips are separated sufficiently to shew the teeth. A set of artificial teeth is mounted within the bust in the part which would
20 be the mouth in the human figure, and one tooth or two or more teeth is or are mounted upon a lever or upon levers. I prefer to mount two of the upper teeth upon one lever, and two of the lower teeth upon a second lever. The said levers are fitted to rock upon suitable fulcra, and a rocking or vibrating movement is imparted to the said levers by means
25 of a train of "clockwork," that is to say, by self-acting mechanism, which will continue to impart the said vibrating movement to the levers for some time after having been wound up. The said movement of the levers causes the teeth mounted thereon to alternately appear in their proper places so as to complete the set of teeth, and to move out of sight
30 so as to leave vacancies in the said set. The aforesaid clockwork may be of an ordinary or suitable description.

And in order that my said Invention may be fully understood, I will in this place refer to the accompanying Sheet of Drawings illustrative of a dentist's bust constructed in manner according with my said Invention.

35 In the said Drawings Fig. 1 represents a front or full face view of the said bust, and Fig. 2 a vertical section of the same. It will be seen that the lips are separated sufficiently to show the teeth.

Oclee's Improvements in Busts for Displaying Artificial Teeth.

In Fig. 1 there are two vacancies in the upper set of teeth and two vacancies in the lower set of teeth. Teeth to fill the said vacancies are fixed to the outer ends of the levers *a* and *b* in Fig. 2. The said levers are mounted on fulcra at *c, c*, and are connected together by the bell crank arms *d, d*, so that when a rocking motion is imparted to the lever *a* a corresponding motion will be transmitted to the lever *b*. The said lever *a* is caused to rock on its fulcrum by means of the crank *e*, which acts on the lever *a* through the connecting link *f*, and is caused to be rotated by means of suitable clockwork contained within the framework *g*. As the levers *a* and *b* rock on their fulcra the teeth fixed to their outer ends are moved into positions in the aforesaid vacancies so as to complete the sets of teeth, and are then withdrawn from such positions so as to shew the said vacancies, these movements being repeated during the continuance in action of the said clockwork.

Having now fully described and indicated the nature of my said Invention, and my method of carrying the same into practical effect, I would in conclusion have it to be understood that I claim as secured to me by the herein-before mentioned and in part recited Letters Patent, the combination of a bust formed with a rigid jaw and having the lips separated in the manner herein-before indicated with suitable clockwork or mechanism for imparting the herein-before described movements to a portion of the teeth.

In witness whereof, I, the said Frederick Henry Oclee, have hereunto set my hand and seal, this Tenth day of September, in the year of our Lord One thousand eight hundred and seventy-two.

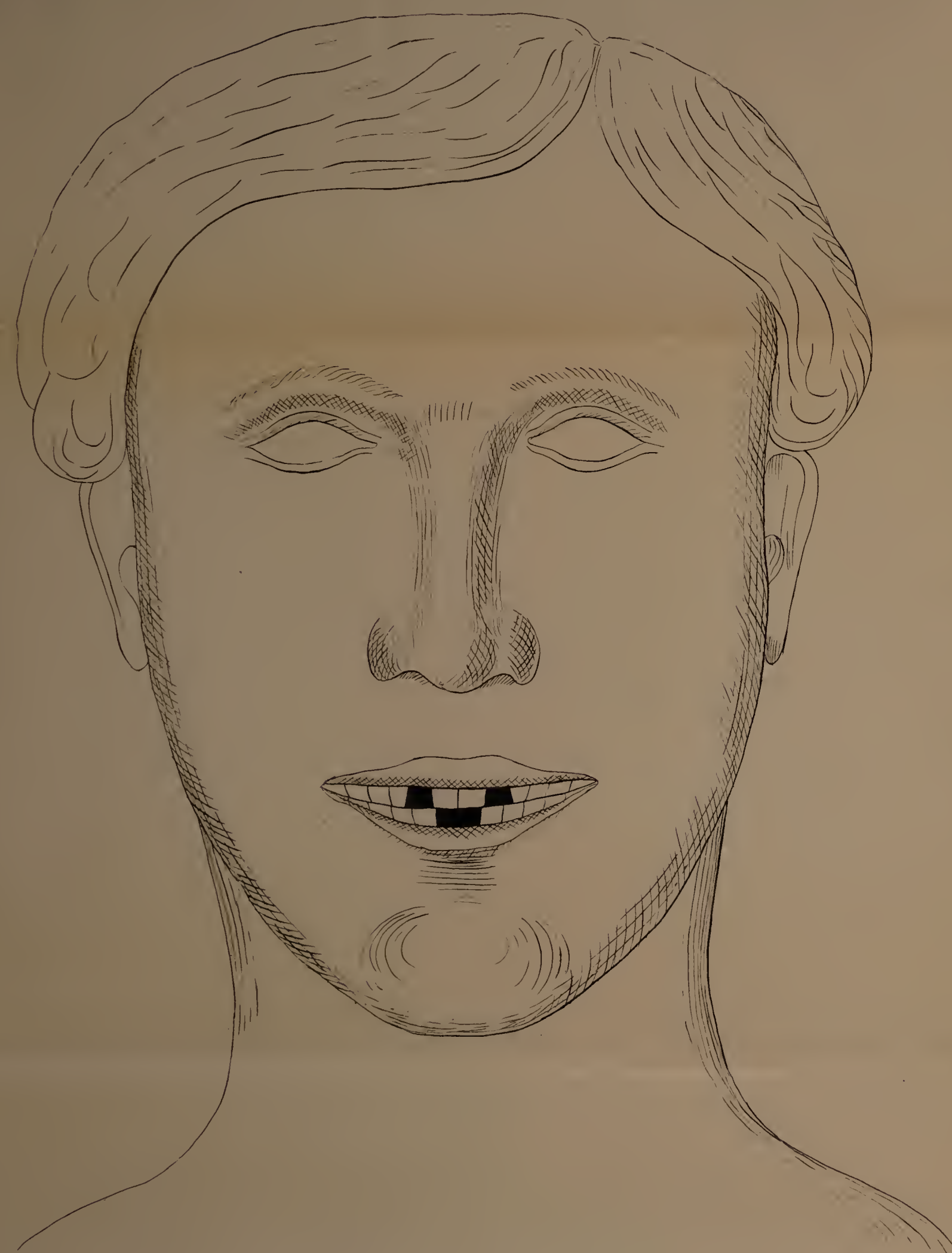
F. H. OCLEE. (L.S.)

Signed and sealed by the said
Frederick Henry Oclee in
the presence of

EDWARD K. DUTTON,
Agent for the Patentee,
3, Smithy Door,
Manchester.

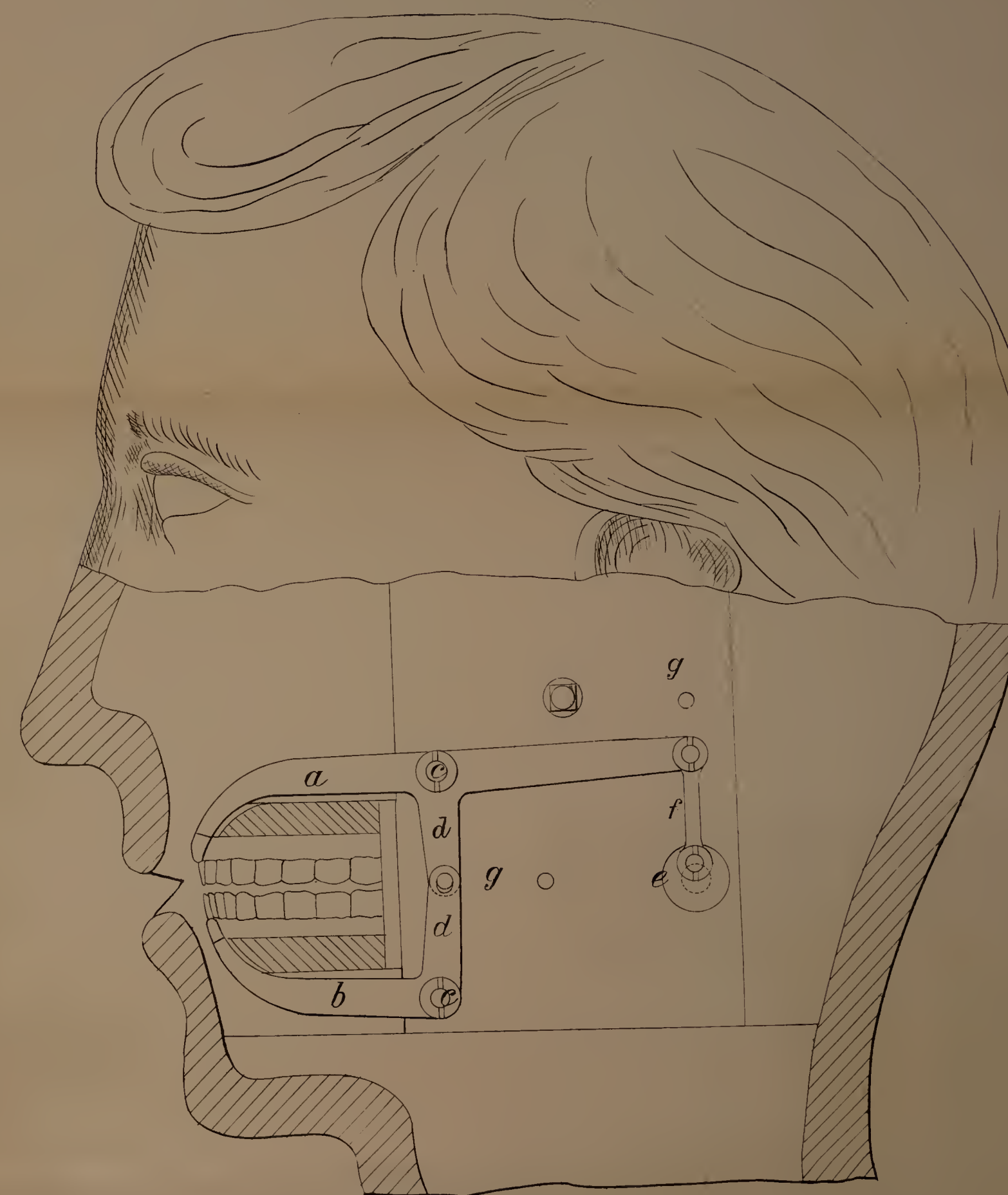
30

FIG. 1.



The filed drawing is partly colored.

FIG. 2.



Drawn on Stone by Malby & Sons.

